

Amazingly New Levels of Beauty and Usability



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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To find out more about the NW31U-EST/NW30U and other projectors, visit us at

www.MitsubishiElectric.com/bu/projectors



New NW31U-EST 
New NW30U 

Same Eco-conscious, High Image Quality Performance

Hybrid Projectors from a Name You Can Trust

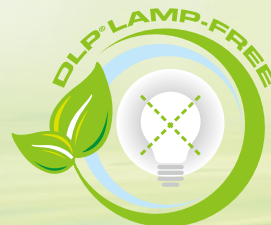
Infusing original technological sophistication into this new line-up of hybrid LED and laser projectors enables Mitsubishi Electric to introduce wide-ranging functions not previously possible with conventional mercury-lamp projectors. While offering enhanced eco-friendliness with a mercury-free light source, longer service life and low power consumption, the NW30U and NW31U-EST reproduce images that have better quality and the projectors are easy to move thanks to the ability to turn power on/off quickly and mount at any angle (360° installation freedom). Whether for business or education, make your next presentation a winner with an eco-friendly projector from Mitsubishi Electric.



Eco-friendly

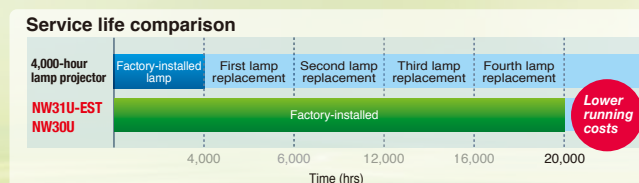
Mercury-free Light Source

Depending on the market, the NW31U-EST/NW30U are equipped with LED and laser light source, replacing the high-pressure mercury lamp. As a result, the environmental impact of mercury* at the time of disposal is no longer a concern.



* Previously, mercury lamps were appropriately disposed of as industrial waste.

Long-life Light Source (approx. 20,000hr)



The new light sources have a service life of approximately 20,000hrs when set to default mode (long-life mercury lamps have a service life of approximately 3,000-4,000hrs). This long service life allows reduced maintenance and less frequent lamp replacements.



New WIDE
NW31U-EST

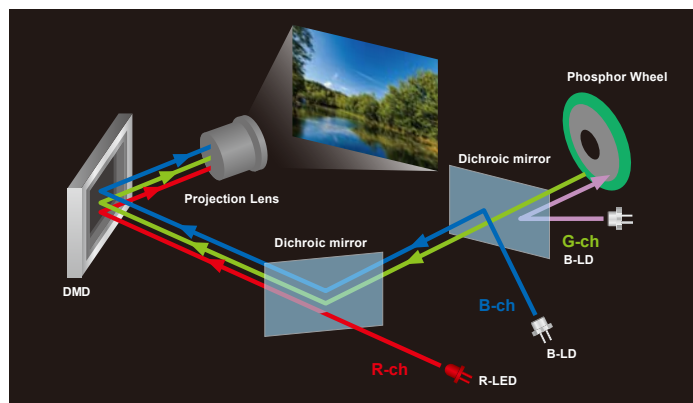


New WIDE
NW30U

Pioneering Next-generation Presentation Solutions

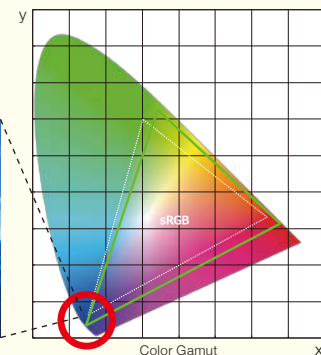


High Image Quality



Wide Range of Color Reproduction / Purer Blue

The hybrid laser/LED light source produces higher color purity and more brightly colored images than the lamps used in conventional projectors. In particular, the previously difficult task of improving reproduction of the color blue and producing purer blue has been achieved through use of a high-performance blue laser designed for digital cinema. The hybrid light source also has a low rate of brightness deterioration to ensure long-lasting image quality.



Reduced Rainbow Effect (Less Color Breaking)

Colors are reproduced using a single-segmented phosphor wheel and independent red, green and blue light source (RGB). This enables fast rotation of the color cycle, thereby making color breaking less apparent.

3000lm High Brightness in a Compact Body (For NW30U)

The projector body has been slimmed down to a compact 4.9kg through measures such as ingenious use of cooling technologies. Even more impressive is that this compact body can produce high brightness at the level of large projectors.



Color Enhancer

The color mode can be set to one of seven modes according to preferences.



✓_Good ✓_Excellent

Color Enhancer	Feature	Web	Movie	Presentation	Monochrome	Whiteboard
Auto	Optimizes the image setting automatically depending on the input signal type (computer or video).	✓	✓	✓	✓	✓
Presentation	Makes the images look bright and sharp. Good for bright rooms or big screens.			✓		
Standard	Makes the images look natural. Good for watching colorful content in bright rooms.	✓	✓			
Rich color	Makes the images look soft and smooth. Good for watching colorful content or movies in dark rooms.		✓			
sRGB	Gives priority to color reproducibility. Good for sRGB content.	✓				
Whiteboard	Reproduces natural color tones when images are projected directly onto a whiteboard.					✓
Dynamic	Maximum brightness mode and the mode with the least amount of color breaking.		✓	✓		

Color Management

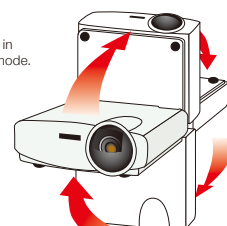
The gain, saturation and hue of six different colors (red, green, blue, cyan, yellow and magenta) can be adjusted independently. It is also possible to adjust the white balance.

COLOR MANAGEMENT - USER			COLOR MANAGEMENT - USER		
COLOR ADJ.	◀ RED ▶		COLOR ADJ.	◀ WHITE ▶	
GAIN	◀ 0 ▶		RED	◀ 0 ▶	
SATURATION	◀ 0 ▶		GREEN	◀ 0 ▶	
HUE	◀ 0 ▶		BLUE	◀ 0 ▶	

Installation Freedom for Wider Applications* (360-degree/Portrait Installation)

Projectors can be mounted at any angle, from 0 to 360°, and images can even be projected onto the ceiling or floor. In addition, vertical mounting is now possible, increasing applications for digital signage.

*Excluding use in high-altitude mode.



* In portrait installation, the exhaust vent must be facing upwards.

Extendibility

Expand Creativity and Learning Fun in the Classroom with Smartphones and Tablet Terminals

Download the free WiFi-Doc and MirrorOp Receiver applications and turn iPads, iPhones and Android phones/pads into tablet terminals.

WiFi-Doc

WiFi-Doc is application software that allows data stored on a tablet or smartphone (txt/pdf/ppt/xls/doc/jpeg files) to be sent directly to a projector and shown. Useful images can be quickly accessed and shared while simultaneously giving presenters the freedom to interact more closely with the audience.

- * Please download a freeware WiFi-Doc application (both freeware and payware are available).
- * Mirroring of the tablet screen is not supported.
- * On tablets, it is not possible to edit files or send movies.
- * Movies and animations are not supported.
- * Communication fees incurred while downloading applications are to be paid for by the customer.



SidePad Function

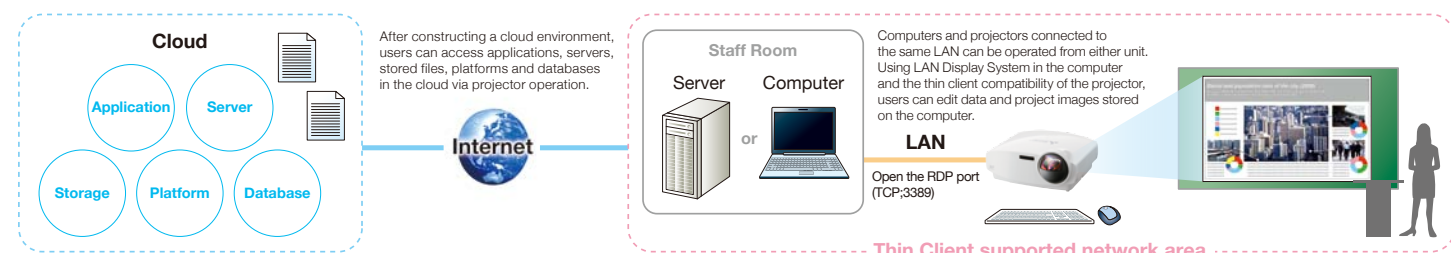
Used in combination with LAN Display System, the images being projected can be displayed on tablets or smartphones, and the computer can be operated from a tablet. Teachers can remotely access their computer when carrying a tablet with them in the classroom, thereby facilitating even closer communication with students during lessons.

- * This feature can be used after downloading the MirrorOp Receiver application software (freeware). The LAN Display System is included with the main unit.
- * MirrorOp, MirrorOp Receiver, and WiFi-Doc are registered trademarks, trademarks, or trade names of AWIND Inc.



The Definitive Mitsubishi Electric Thin Client Projector

When connected to a LAN, users can log-in to remote computers directly from the projector, retrieve stored images and play them back. Through the introduction of the LAN Display Function and Remote Log-in Function, use as a thin client is possible. As all operations can be performed through the LAN, it is easy to start up another projector at the time of changing classrooms. Faculty members no longer need to return to the staff room to change the log-in on the remote computer. The NW31U-EST/NW30U itself also functions as a terminal adaptor, enabling connection to a cloud through a computer or server. Applications and data can be used in the cloud infrastructure environment, helping to reduce the amount invested in school equipment. A projector that is truly easy to use, the thin-client compatibility of the NW31U-EST/NW30U provides enhanced convenience that makes giving presentations much easier.

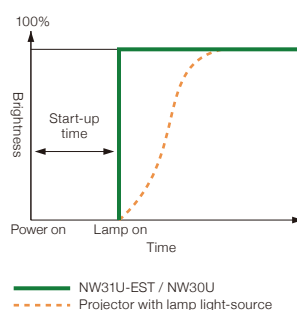


- System requirements
- * Server OS: Windows MultiPoint Server 2011, Windows Server 2008 R2
 - * Client OS: Windows XP Professional, Windows Vista (Enterprise/Business/Ultimate), Windows 7 (Enterprise/Professional/Ultimate)
 - * RDP protocol used

Installation Flexibility

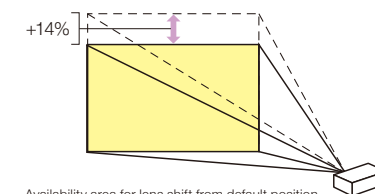
Quick Power On/Off

Projectors can be used immediately with maximum brightness without warming-up. In addition, a direct power-off function immediately cuts all power, eliminating the annoying power-down time required before unplugging projectors. After the presentation, simply turn off the power and disconnect the projector; it's as easy as that. A must-have feature for busy people on the go.



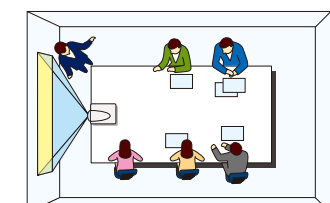
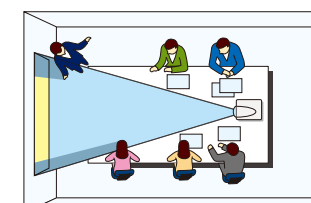
Vertical Lens Shift Function (For NW30U)

The problem of offset image often experienced at the time of installation has been eliminated. Simply open the top cover on the projector and use the manual lens shift-adjustment dial to correct the image. It's safe and easy to use, even in difficult installation conditions such as a low ceiling. In addition, because positioning can be adjusted without keystone correction, there is no degradation of picture quality caused by electrical correction.



Ultra Short Throw (For NW31U-EST)

Utilizing a large-diameter lens and optimal engine design, the shortest focal distance (throw ratio: 0.375) in the industry has been achieved. Even if the teacher or presenter must move in front of the projected image, they are not distracted by projector light, enabling them to maintain eye contact with the audience at all times.



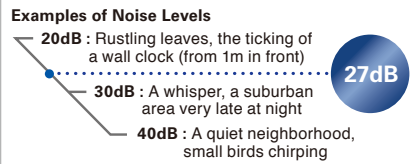


User-friendly

Ultra Quiet Operation – 27dB* in Silent mode

Fan noise during projector operation can be distracting during a presentation or videoconference. The NW31U-EST/NW30U operate at a significantly low noise level of only 27dB (i.e., in “low lamp” mode). As a result, presentations and conferences can be enjoyed without distracting projector noise in the background.

* 33dB in Dynamic mode.



Auto Keystone

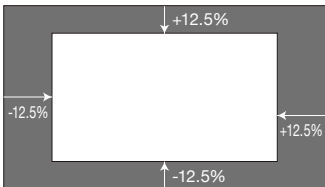
Turn Auto Keystone mode on in advance for automatic correction of any trapezoidal distortion that occurs during projection.

E-Zoom and E-Shift (For NW31U-EST)

Projectors are equipped with E-Zoom and E-Shift electrical processing features. E-Zoom can minimize images up to 25% (reduction ratio: 75%), and E-Shift allows images to be moved up/down and left/right $\pm 12.5\%$ when the E-Zoom reduction ratio is 75%.



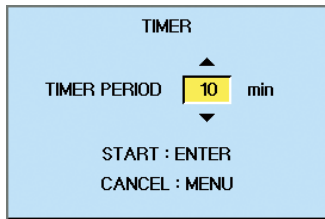
Reduction ratio; 100-75%, Zoom ratio; 1-1.4



When the reduction ratio is 75% (minimum); image can be moved $\pm 12.5\%$ up/down/left/right.

Presentation Timer

The presentation time can be set between 1 and 60 minutes in one-minute blocks up to 20 minutes and five-minute blocks between 20 and 60 minutes. It is also possible to display the time remaining on the screen to guide the presenter in time allocation.



Stand-by Audio / Audio Pass-through

When the projector is in stand-by mode, the 10W speaker can be used in the same way as normal mode, including adjustment of audio volume. External speakers can be used by connecting them via the Audio Out terminal.



The 10W speaker can be used when the projector is in stand-by mode. In addition, audio can be output when the projector is in stand-by mode, using the projector as an amplifier.

3D Ready – Enjoy the future today

Unlike conventional 3D Ready models that only support the frame sequential format, the NW31U-EST/NW30U can support Blu-ray 3D in all standard formats, enabling users to enjoy educational content, popular movies and more in 3D (separately sold glasses compatible with DLP Link are required).



3D image format			
Frame packing 	Side by side 	Top and bottom 	Frame sequential (field sequential)

Network Connectivity

Projectors are equipped with a RJ-45 LAN terminal for remote operation. Additionally, when used with Crestron RoomView™, integrated control of up to 250 projectors including power on/off control, message display and confirmation of lamp service hours is possible. The NW31U-EST/NW30U series are equipped with AMX Device Discovery for simplified device management and compatible with PLink™.



The trademark of PLink is trademark applied for registration or registered trademark in Japan, the United States, and other countries and areas.

External Interactive Module (Option)

This easy-to-add interactive function makes it possible for users to write on the projection screen; for example, in a classroom. The camera is built into the module to ensure accurate positioning information, reducing the risk of the writing position being out of alignment.



Intelligent Glare Sensor

Should anyone get close to the front of the projector during use, projection pauses automatically, eliminating the glare from the projection light.

High-altitude Mode

Projectors can be used at high altitudes 1,500~2,700m above sea level.

Closed Caption Support

Showing text information in NTSC format.



New

NW31U-EST

New

NW30U

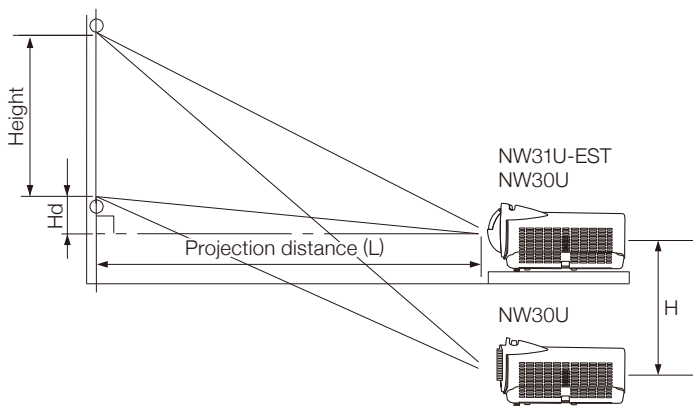
Specifications

Model	NW31U-EST	NW30U
Display technology	0.65" 1-Chip DMD	
Resolution	1280 × 800 (Total 1,024,000 pixels)	
Brightness*1*2	2500lm	3000lm
Contrast ratio*2	10000 : 1 (on/off)	
Zoom/Focus	Digital zoom*3 (Zoom ratio 1.4:1) & Manual focus	Optical zoom (Zoom ratio 1.5:1) & Manual focus
Projection lens	f=5.4mm, F=2.7 (Throw ratio=0.375 [fixed])	f=20.7-31.0mm, F=2.4-2.9 (Throw ratio=1.4-2.1)
Picture size	70 – 180"	40 – 300"
Light source	LED/LD hybrid Red: LED, Green: LD + phosphor, Blue: LD Service life: 20,000hrs (Default mode)	
Computer compatibility	640 × 480 (Expand) – 1280 × 800 (Real) – 1920 × 1200 (Compress) Sync on Green available	
Video compatibility	NTSC / NTSC 4.43 / PAL (including PAL-M, N) / SECAM / PAL-60 Component video: 480i/p (525i/p), 576i/p (625i/p), 720p (750p), 1080i/p (1125i/p 60Hz), 1080i/p (1125i/p 50Hz)	
Input terminals	RGB: Mini D-sub 15pin × 2 Video: RCA × 1 + S-VIDEO × 1 Audio: Stereo mini jack (φ3.5mm) × 2 (one for COMPUTER IN-1, one for COMPUTER IN-2) Digital: HDMI × 1 Video audio: RCA jack (L/R) × 1	
Output terminals	RGB: Mini D-sub 15pin × 1 Audio: Stereo mini jack (φ3.5mm) × 1	
Communication terminals	Serial: Mini D-sub 9pin × 1 (RS232C) LAN (RJ-45): × 1 (Projector control, LAN display) USB type-A: × 1 (Wireless USB adapters, USB flash drive, USB human interface device)	
Audio speaker	10W mono	
Dimensions (W × H × D)	376 × 139 × 311mm (Not included protrusion)	
Weight	Approximately 5.4kg (11.9lbs)	Approximately 4.9kg (10.8lbs)
Power requirements	100-240VAC, 50/60Hz	

*1 Varies depending on conditions. *2 In Dynamic mode. *3 Digital zoom (E-Zoom) is a function used to zoom the screen in/out using electrical processing rather than an optical lens. *Compliant with ISO21118-2005. *All brand names and product names are trademarks, registered trademarks or trade names of their respective holders. *HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Screen Size and Projection Distance

Side view



The above numbers are approximate, and may be slightly different from the actual measurements.

Screen size chart (NW31U-EST)

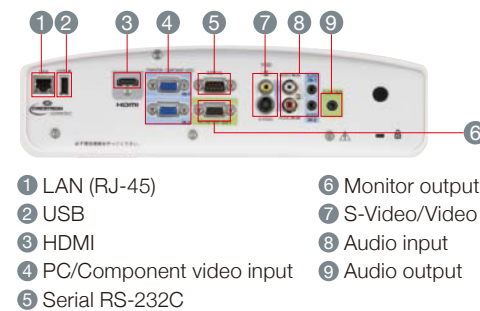
Screen (16 : 10)						Projection distance (L)		Height of projected image (Hd)	
Diagonal size		Width		Height					
inch	cm	inch	cm	inch	cm	inch	m	inch	cm
70	178	59	151	37	94	22	0.56	4.6	12
80	203	68	172	42	108	25	0.64	5.3	13
100	254	85	215	53	135	32	0.82	6.6	17
120	305	102	258	64	162	39	0.99	7.9	20
150	381	127	323	79	202	49	1.25	9.9	25
180	457	153	388	95	242	60	1.51	11.9	30

Screen size chart (NW30U)

Screen (16 : 10)						Projection distance (L)		Height of projected image (Hd)		Lens shift height (H)	
Diagonal size		Width		Height							
inch	cm	inch	cm	inch	cm	Shortest (Wide)	Longest (Tele)	inch	cm	inch	cm
40	102	34	86	21	54	49	1.2	76	1.9	2.6	7
60	152	51	129	32	81	74	1.9	114	2.9	4	10
80	203	68	172	42	108	99	2.5	153	3.9	5	13
100	254	85	215	53	135	124	3.2	191	4.9	7	17
120	305	102	258	64	162	149	3.8	230	5.8	8	20
150	381	127	323	79	202	187	4.7	288	7.3	10	25
200	508	170	431	106	269	250	6.3	384	9.8	13	33
250	635	212	538	132	337	312	7.9	-	-	16	42
300	762	254	646	159	404	375	9.5	-	-	20	50

Input and Output Terminals

NW31U-EST / NW30U



Options

Wall-mounting unit
(For NW31U-EST)



BR-380WM

Interactive Module Kit
(For NW31U-EST)



RC-MK2